

Name: _____

Date: _____

Weekend Word Problem #8: Inequalities and Profit

The Situation: Patrick is starting a restaurant to compete with Krazy Burger. His initial investment in the business is \$35,000. Patrick spends \$2,000 per month to pay his one employee and spends \$3,000 per month in rent and \$4,000 per month on supplies. Each month, Patrick makes \$8,000 selling Patty Burgers and \$3,000 selling Patty Popsicles.

1. What are Patrick's total expenses per month?

2. What are Patrick's total sales per month?

3. Using your answers from #1 and #2, calculate Patrick's total profit per month.

4. Using the variable m to represent # of months, write an inequality for the question below. Be sure to use any known values.

The product of Patrick's profit per month and the number of months is at least \$35,000.